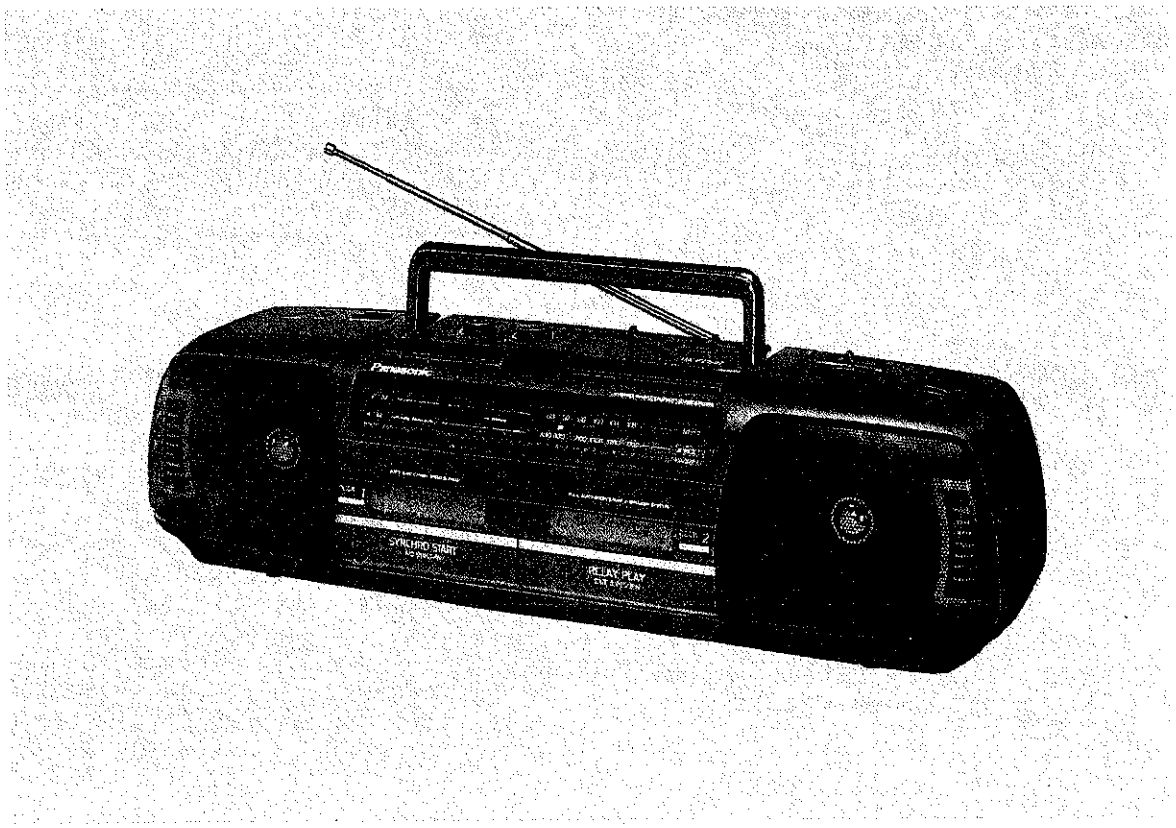
Operating Instructions

Stereo Radio Cassette Recorder

MODEL NO. RX-FT510



Panasonic

Read these instructions completely before operating this unit.

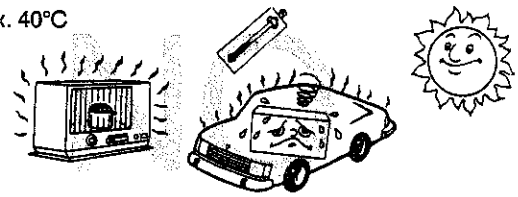
GN

Thank you for purchasing this unit.
For optimum performance, follow these operating instructions carefully.

PRECAUTIONS

- **If the set is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.**
- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.
- Avoid cuts, scratches, or poor connections in the AC power cord, as they may result in possible fire or electric shock hazard. Also, excessive bending, pulling or splicing of the cord should be avoided.
- Do not unplug the AC power cord by pulling on the cord. To do so may cause premature failure or shock hazard.
- Do not operate the set on AC power in a bathroom, as a potential shock hazard may result.
- When not in use, disconnect the AC power cord from the AC power outlet.
- The Function Selector switch does not separate entire unit from mains even if in "TAPE/OFF" position.

Max. 40°C

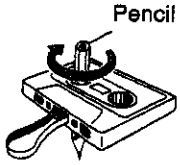


WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CASSETTE TAPES

Use only good-quality tapes up to the length of C-90. Do not use C-120 tapes with this unit because these tapes can easily become broken or stretched if not used with extreme care and may get tangled with the Capstan and Pressure roller.

OK



If the tape loosens, take up the slack by turning the reel in the proper directions.

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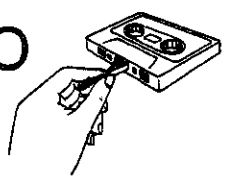


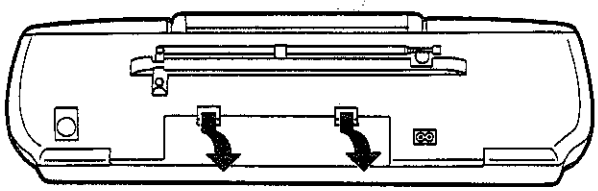
Do not handle, or pull the tape out of the cassette.

Notes:
- Use normal type of cassette tapes only. If other tapes are used, you may not obtain optimum performance.
- Cassettes, both recorded and unrecorded, should not be stored in locations with high temperature, high humidity or direct sunlight. Never place a recorded cassette near a magnetic source, such as a magnet or a TV set as this may affect tape performance.

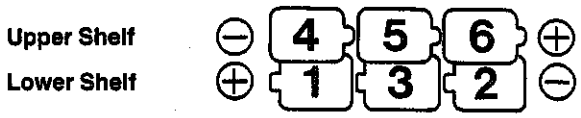
POWER SOURCE

■ Battery Operation

1. Open the Battery Compartment cover as shown in the figure.



2. Insert 6 UM-1 size (Panasonic R20/LR20 or equivalent) batteries into the Battery Compartment, making sure that the proper polarities are maintained, and that the batteries are installed in the specified numerical order.

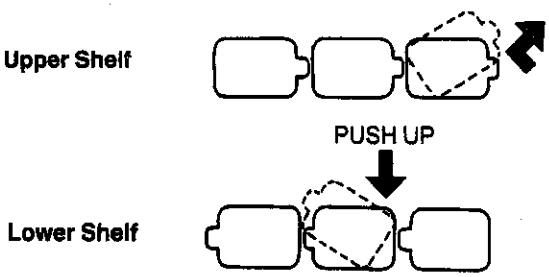


3. Replace the compartment cover.

Notes:
- Batteries installed with incorrect polarities may leak and damage this unit.
- Do not mix batteries (old and new) or types (carbon and alkaline).

•Battery removal

Remove as shown in the figure below.



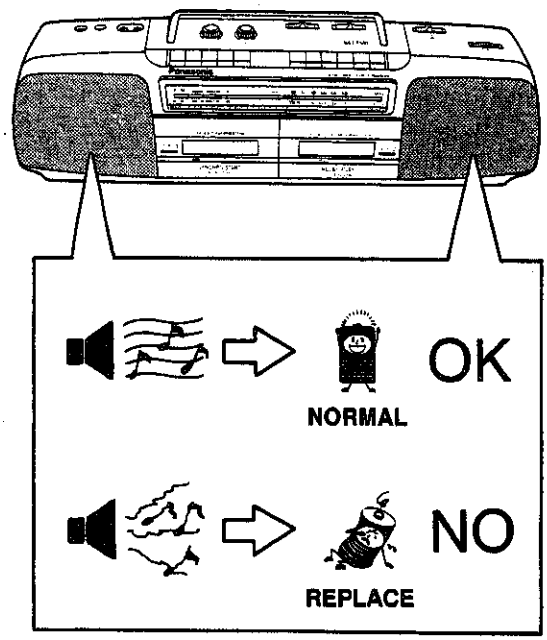
To Prevent Possible Damage to This Unit

- Load new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If this unit is not to be used for a long period of time, or used on AC power source, remove all batteries and store them in a cool and dry place.
- Remove spent batteries immediately.
- Do not use old and new batteries together. Also never use an alkaline battery with a manganese battery.

•Battery life

When the batteries are weak, the tape speed will slow down, the sound will become distorted, and the volume will decrease.

Set the Function Selector to "TAPE/OFF". Press the Playback Button. When the sound is distorted, it is time to replace all the batteries with new ones.

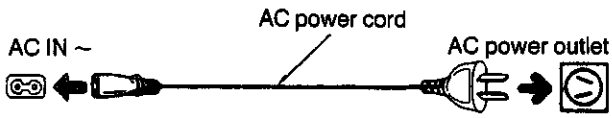


Note:

If the set is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.

■ AC Power Operation

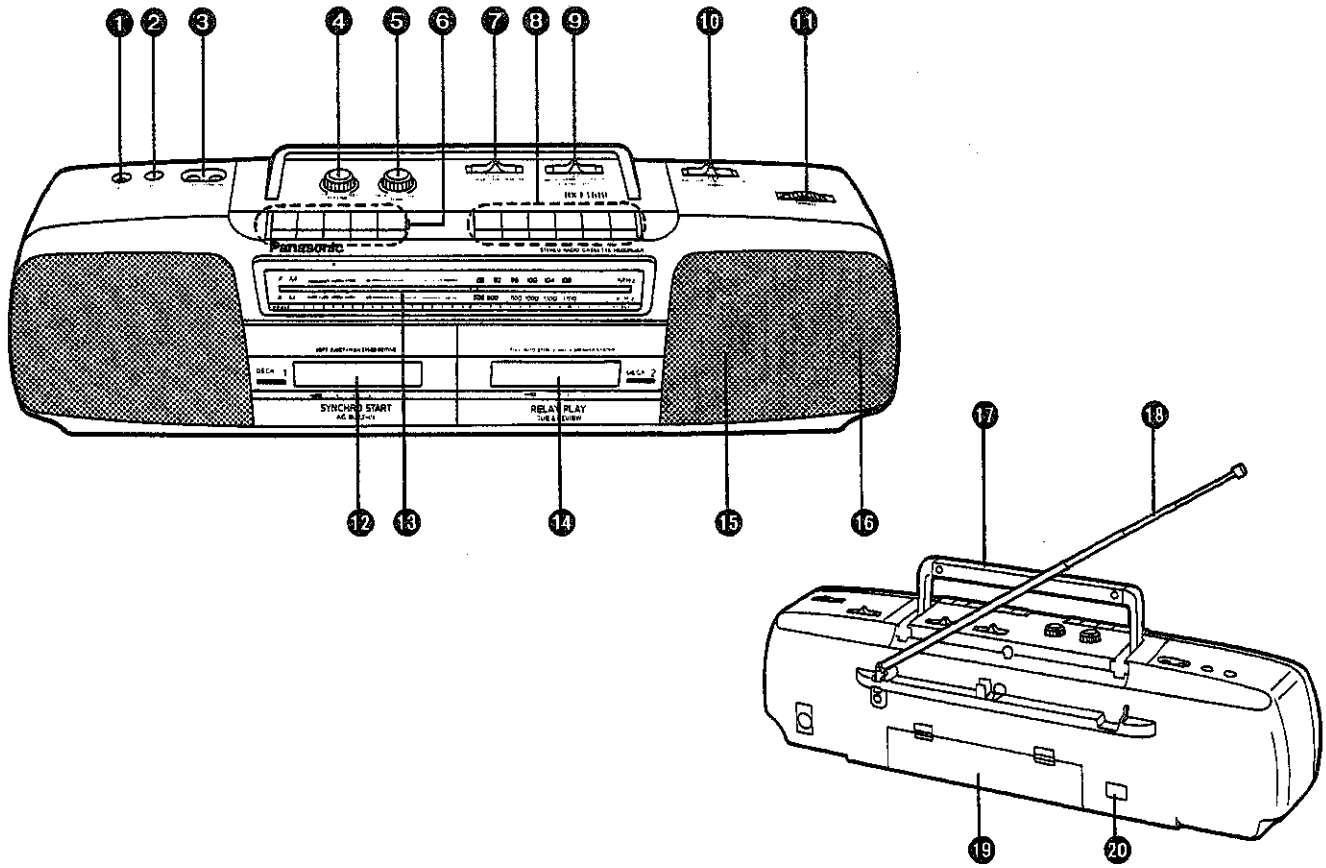
Connect the included AC power cord to the AC Socket in the unit and your household AC power outlet.



Note:

To operate on battery power, unplug the AC power cord from the household AC power outlet and the AC Socket on the unit.

LOCATION OF CONTROLS



❶ Headphones Jack (PHONES)
❷ Built-in Microphone (MIC)
❸ CD/Line Input Jacks (CD/LINE IN)
❹ Volume Control (VOLUME)
❺ Tone Control (TONE)

❻ **Deck 1 (For Playback)**
- Pause Button (❚❚ PAUSE)
- Stop/Eject Button (⏏STOP/EJECT)
- Fast Forward/Cue Button (◀◀/CUE)
- Rewind/Review Button (▶▶/REV)
- Playback Button (◀ PLAY)

❼ Function Selector (SELECTOR)

❽ **Deck 2 (For Recording and Playback)**
- Pause Button (❚❚ PAUSE)
- Stop/Eject Button (⏏STOP/EJECT)
- Fast Forward/Cue Button (◀◀/CUE)
- Rewind/Review Button (▶▶/REV)
- Playback Button (◀ PLAY)
- Record Button (● RECORD)

❾ Editing Mode Selector/Beat Proof Switch (EDITING/B.P)
❿ Band Selector (BAND)
⓫ Tuning Control (TUNING)
⓬ Deck 1 Cassette Compartment
⓭ FM Stereo Indicator (FM STEREO)
⓮ Deck 2 Cassette Compartment
⓯ Speakers [Woofer]
⓰ Speakers [Tweeter]
⓱ Handle
⓲ Telescopic Antenna
⓳ Battery Compartment
⓴ AC Socket (AC IN~)

RADIO

1. Set the Function Selector to "RADIO".
2. Set the Band Selector to the desired radio band.
3. Tune in your favourite station using the Tuning Control.
4. Adjust the Volume and Tone Controls to the desired settings.
5. The radio can be turned off by setting the Function Selector to "TAPE/OFF".

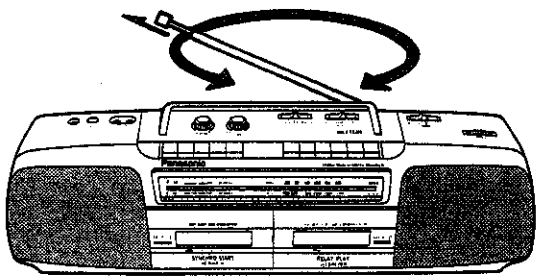
Notes:

- To receive FM stereo broadcasts, set the Band Selector to "FM STEREO". The FM Stereo Indicator will light during stereo broadcasts.
- If FM stereo reception is poor (excessive noise, FM Stereo Indicator flickers), set the Band Selector to "FM". This will reduce the noise and provide clear reception; however, the broadcast will not be heard in stereo.

■ Antennas

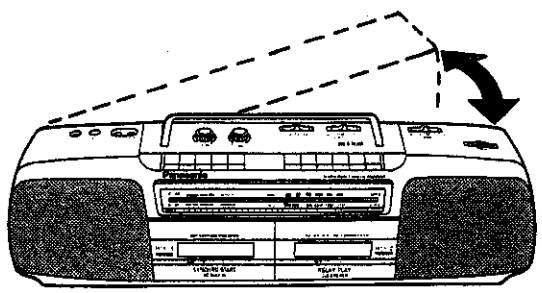
FM:

Pull out the Telescopic Antenna and adjust its length and angle for optimum reception.



AM:

The sensitive ferrite core antenna inside the set will provide excellent AM reception in most areas. For optimum reception, turn the set in the direction which gives the best results since the ferrite core antenna is directional.

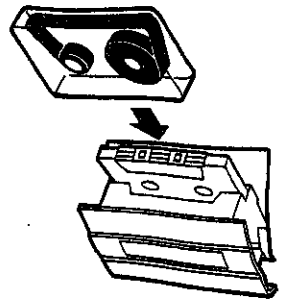


TAPE PLAYBACK (DECK 1/DECK 2)

This unit has a dual cassette system. A tape can be played back with Deck 1 and Deck 2.

■ Single Tape Playback

1. Open the Cassette Compartment cover by pressing the Stop/Eject Button. Insert the playback tape as shown in the figure, and then close the Cassette Compartment cover.



2. Set the Function Selector to "TAPE/OFF".
3. Press the Playback Button to begin tape playback.
4. Adjust the Volume and Tone Controls.
5. To stop the playback, press the Stop/Eject Button.

■ Automatic Playback Relay (Deck 1 to Deck 2)

When Deck 1 playback has finished, Deck 2 playback starts automatically.

1. Insert the playback tapes into Deck 1 and Deck 2.
2. Press the Deck 1 Playback Button.
3. Press the Deck 2 Pause Button, then press the Playback Button.

■ Fast Forward and Rewind

The tape will move rapidly forward when the Fast Forward Button is pressed.

The tape will rewind rapidly when the Rewind Button is pressed.

Note:

Do not press the Playback Button during fast forward or rewind, as this may jam the tape. Always press the Stop/Eject Button first, between functions.

■ Cue and Review

If the Cue Button (or Review Button) is partially pressed during playback, the recorded sound on the tape can be monitored at a fast speed.

When the button is released, playback will resume.

•This unit has an Automatic Level Control (the recording level is automatically adjusted).

■ Recording Radio Broadcasts

1. Follow the procedure described in "RADIO".
2. Insert the cassette tape into the Cassette Compartment.
3. Press the Record Button.
4. To stop the recording, press the Stop/Eject Button.
5. Set the Function Selector to "TAPE/OFF" to turn the unit off.

•Beat Proof Switch

When an AM broadcast is recorded, the Beat Proof Switch can be used to reduce unwanted "beat" signals (whistle) which are sometimes present. Set the switch to whichever position best reduces these "beat" signals.

■ Recording through the Built-in Microphone

The condenser microphone in this unit is omni-directional (all directions), so that recordings can be made from any direction.

1. Set the Function Selector to "TAPE/OFF".
2. Set the Editing Mode Selector to "MIC".
3. Follow the procedure described in steps (2)–(4) of "Recording Radio Broadcasts".

Note:

Do not press the Deck 1 Playback Button during recording, otherwise the sound of Deck 1 is also recorded.

■ Recording from External Equipment (Refer to page 8)

1. Connect the output of the external equipment to the CD/Line Input Jacks.
2. Set the Function Selector to "CD/LINE".
3. Follow the procedure described in steps (2)–(5) of "Recording Radio Broadcasts".

■ Pause Button

The Pause Button can be used to temporarily stop the tape from moving during recording or playback.

Before beginning a recording, first press and lock the Pause Button. Then press the Record Button. (The tape will not move.)

When ready to record, press the Pause Button to release it. This will start tape movement for immediate recording.

Note:

Do not use the Pause Button to stop the tape for a long period of time.

The unit is not turned off when the Pause Button is pressed. Always use the Stop/Eject Button to turn the unit off.

■ Monitoring

The monitor system enables you to listen, through the Speakers or Headphones, to the sound as it is being recorded.

If it is necessary to adjust the volume level of the sound being monitored, do so by using the Volume Control.

•When recording from the Built-in Microphone, the sound being recorded cannot be monitored.

■ Erasure of Recording

When recording, previously recorded signals on the tape will be erased automatically.

To erase a tape without re-recording, use the following procedure. (Make no connections to the CD/Line Input Jacks.)

1. Set the Function Selector to "CD/LINE".
2. Press the Record Button.

■ Full Auto-Stop

When the tape reaches its end during playback, recording, fast forward or rewind, the automatic stop system will release the operation buttons.

Note that the unit is not turned off if the Function Selector is set to "RADIO" or "CD/LINE"; the Function Selector must be set to "TAPE/OFF".

SYNCHRONIZED EDITING (from DECK 1 to DECK 2)

When the Deck 2 Pause and Record Buttons are pressed, tape editing starts by pressing the Deck 1 Playback Button.

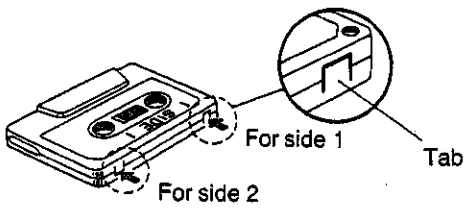
1. Insert the playback tape into Deck 1 and the editing tape into Deck 2.
2. Set the Function Selector to "TAPE/OFF".
3. Set the Editing Mode Selector to the desired position.
   "NORMAL" ..... normal speed
   "HIGH" ..... high speed
4. Press the Deck 2 Pause Button, then press the Record Button.
5. Press the Deck 1 Playback Button.
   - Editing is started by means of the Synchro-Start function.
6. To stop editing, press the Stop/Eject Button (Deck 1 and Deck 2).

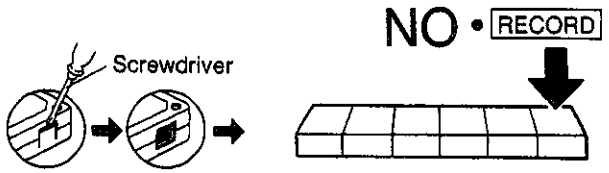
Notes:

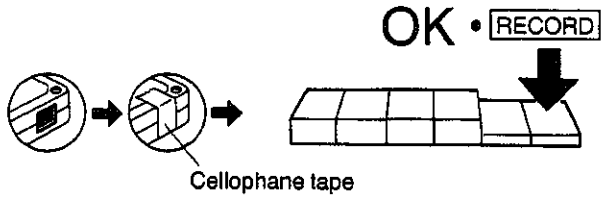
- Do not change the Editing Mode Selector during editing. The playback sound may flutter.
- Be sure to set the Function Selector to "TAPE/OFF" during editing. Do not change the selector to any other position.
- Some TV sets generate noise that could be recorded during editing.
  To prevent the possibility of this do not use this unit closer than 1.5 m to a TV set.

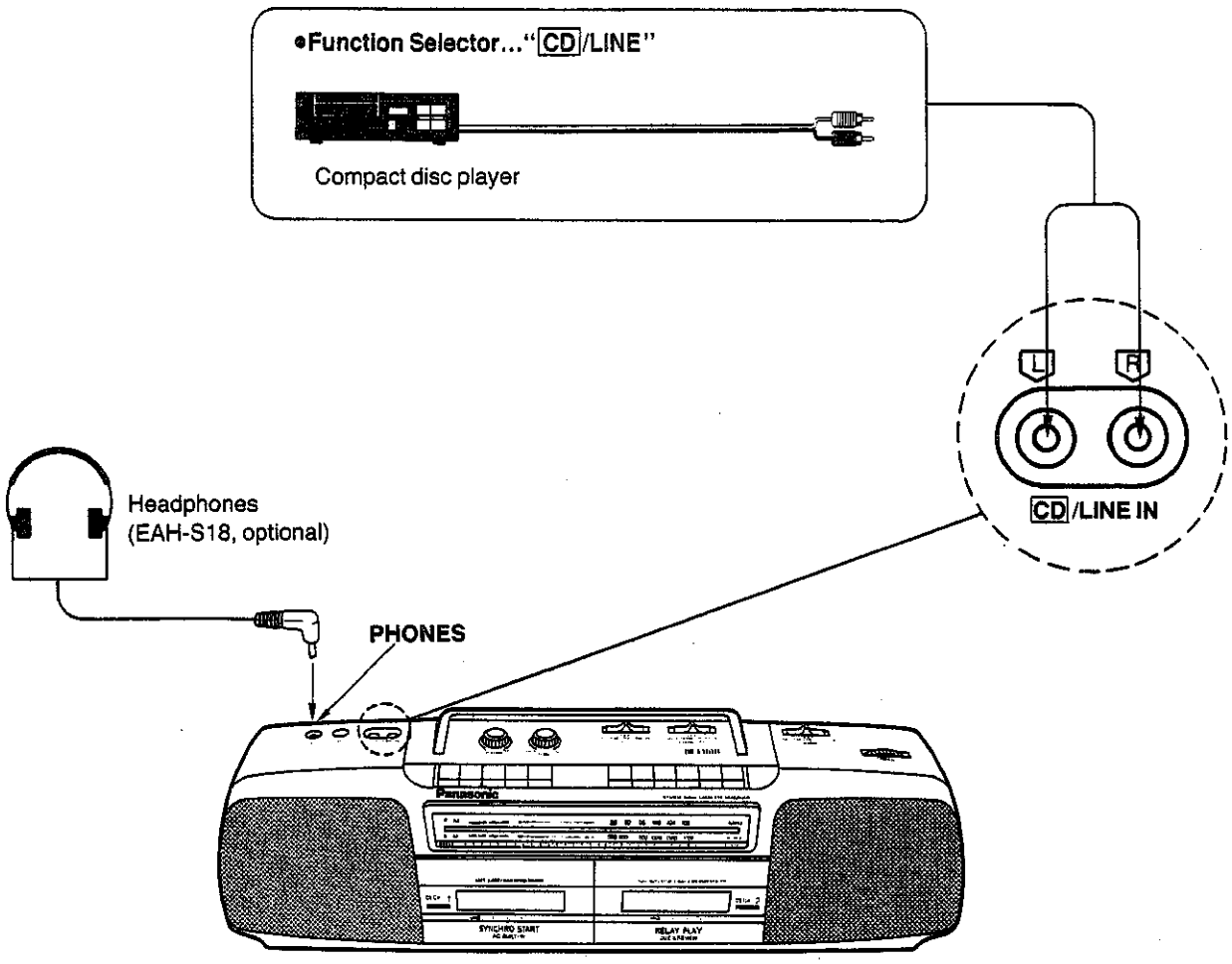
RECORD PREVENTION TABS

Cassettes are provided with plastic tabs (as illustrated) to prevent accidental erasing of a recording.
Recordings can be made only when the tab is intact. There is one tab for each side (track) of the tape. To preserve a valuable recording, the tab(s) should be broken off with a small screwdriver.
If you want to record on a track whose tab has already been broken off, use cellophane tape to cover the hole, and record.









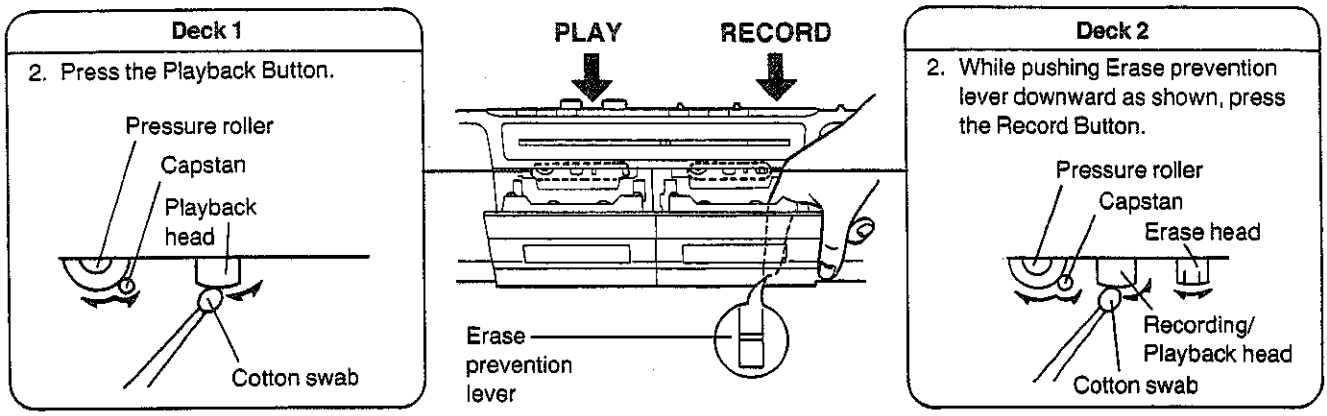
•When using the headphones, avoid listening to sound at excessive volume levels, because it may injure your ears.

•Speakers are automatically cut off when the headphones are connected.

MAINTENANCE

The head assembly, Capstan, and Pressure roller are in constant contact with the tape. If these parts are dirty, the sound quality will be impaired. Get into the habit of cleaning the parts regularly (after every 10 hours or so of use) in accordance with the procedure outlined below.

1. Open the Cassette Compartment cover by pressing the Stop/Eject Button (Deck 1/Deck 2).



Notes:

- If the head assembly is extremely dirty, clean it with a soft cloth dampened with a little alcohol.
- Do not bring any type of metal objects or tools such as magnetic screwdrivers in contact with the head assembly.
- Do not clean the plastic cabinet with benzine or thinner. Clean it with a cloth, dampened in a mild solution of soap and water. Avoid excessive moisture.
- Avoid spray-type insecticides. Some insecticides contain chemicals that could cause cabinet deformation.

SPECIFICATIONS

■ Radio

Frequency Range:	FM; 88–108 MHz AM; 525–1705 kHz

■ Tape Recorder

Track System:	4-track, 2-channel, stereo
Recording System:	AC bias, magnet erase
Monitor System:	Variable sound monitor
Frequency Response:	70–12000 Hz

■ General

Power Requirement:	AC; 230–240 V, 50 Hz Power consumption; 16 W Battery; 9 V (6 UM-1, R20/LR20 size batteries)
Power Output:	10 W×2...PMPO 4 W×2...RMS (max.)
Speakers:	2-Woofers; 10 cm 2-Tweeters; 1.5 cm
Jacks:	
Input;	CD/LINE IN; 398 mV/47 kΩ
Output;	HEADPHONES; 32Ω
Dimensions (W×H×D):	566×156×167 mm
Weight:	3.1 kg without batteries

Design and Specifications are subject to change without notice.

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